

AGX710 GIMBALED SENSOR



Sentera AGX710 Gimbaled Sensor
Powered by DJI SKYPORT

Sentera's gimbal-stabilized AGX710 delivers exceptional agronomic intelligence to the DJI MATRICE™ 200 and 210. Powered by DJI SKYPORT™, AGX710 offers live video and still image download, and full gimbal control.

Agriculture professionals need immediate, accurate crop and field performance information. AGX710, powered by DJI SKYPORT, offers real-time spectral and vision-based status measurements that deliver scouting information to support current workflows. On M210 dual-gimbal configurations, combine AGX710 with a ZENMUSE™ XT to add simultaneous thermal-band collection on the same flight. AGX710 is fully-compatible with Sentera FieldAgent™ analysis, reporting, and API integrations to offer the best combination of connected and connectionless imaging and analytics capabilities.

FEATURES & BENEFITS

- Efficiently capture relevant health indices, variants include: RGB, NDVI, NDRE, and nearly a dozen other specialized index products
- Actively scout fields with live-streaming video options
- Quickly integrate with DJI M200 and M210 drone series using Lock-and-Go gimbal technology
- Seamlessly flow data to FieldAgent Web, Mobile, and Desktop platform; generate shapefiles, support prescription development, and telematics integration
- AGX710 includes 12 months of the FieldAgent Platform

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INSTALLATION OPTIONS

Sentera's AGX710 Gimbaled Sensor is powered by DJI SKYPORT™ - the key to seamless integration with any DJI MATRICE™ 200 Series drone. SKYPORT compliance allows for full control of the AGX710 using DJI Pilot, Sentera FieldAgent™, or any compliant flight app.



AGX710 Sensor
Mounted on DJI MATRICE 200



AGX710 and ZENMUSE XT Sensors
Mounted on MATRICE 210 Drone

SPECIFICATIONS

Sensor Configs.	12.3MP BSI CMOS	Gimbal	Mount: Detachable Controllable Range: Tilt: 0° to -90°, Pan 0°; Roll 0° Mechanical Range: Tilt: +25° to -115°, Pan 0°; Roll ±40° Max Controllable Speed: 50°/S
Spectral Configurations	RGB + NDVI NDVI: Red (625nm), NIR (850nm) RGB + NDRE NDRE: Red Edge (720nm), NIR (840nm) Multispectral Blue (446nm), Green (548nm), Red (650nm), Red Edge (720nm), NIR (840nm)	Storage	64GB Micro SD card
Size	3.50" x 3.46" x 3.86" (89mm x 88mm x 98mm)	Flight Endurance	M200 & AGX710: 35 Minutes M210 & AGX710 + XT Thermal: 28 Minutes
Weight	270 grams	Mapping Efficiency*	QuickTile™ Map: 500 acres typical Orthomosaic Map: 150 acres typical
Power	10W typical / 16W maximum	Ground Sample Distance	3.5cm
Image format	Stills: JPEG Video: MP4	FieldAgent Platform	Seamless integration! AGX710 imagery is compatible with analytics around stand and emergence, variability, biomass, nutrition, pest, weed, & disease
Field of view	60° HFOV (4K Stills / Video) 1080p ranges 30° - 60° HFOV		
Data capture	12.3MP Stills 4K Ultra HD video @ 30fps 1080p/720p Video		

* Assumptions: 35 minute flight, 17 m/s

FIELDAGENT WEB, MOBILE & DESKTOP PLATFORM

The FieldAgent Platform is a complete agricultural data analytics solution that provides deep, actionable insights. Coupled with a Sentera AGX710 Gimbaled Sensor, FieldAgent takes you beyond aerial photos into meaningful data products with actual economic value. Sentera analytics around stand and emergence, variability, biomass, nutrition, pest, weed, and disease status are compatible with AGX710 imagery.



FieldAgent Web, Mobile, and Desktop



FieldAgent Mobile iOS



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